

FORM
2

Rev
10/24

State of Colorado

Energy & Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

404625745

(SUBMITTED)

Date Received:

04/19/2026

APPLICATION FOR PERMIT TO

Drill Deepen Re-enter Recomplete and Operate Amend

TYPE OF WELL OIL GAS COALBED GEOTHERMAL GEOLOGIC STORAGE

OTHER: _____

TYPE OF GEOLOGIC STORAGE WELL SCIENCE MONITORING

ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES

Refile

Sidetrack

Well Name: LAVENDER

Well Number: 33-16HZ

Please describe the reason for the scientific well and its potential future use:

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP

ECMC Operator Number: 47120

Address: P O BOX 173779

City: DENVER

State: CO

Zip: 80217-3779

Contact Name: Christina Hirtler

Phone: (720)929-6301

Fax: ()

Email: christina_hirtler@oxy.com

FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

ECMC Financial Assurance

The Operator has provided or will provide Financial Assurance to the ECMC for this Well.

Surety ID Number (if applicable): 20010124

Federal Financial Assurance

In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for this Well. (Per Rule702.a.)

Amount of Federal Financial Assurance \$ _____

WELL LOCATION INFORMATION

Surface Location

QtrQtr: NENE Sec: 33 Twp: 4N Rng: 68W Meridian: 6

Footage at Surface: 382 Feet FNL 881 Feet FEL

Latitude: 40.275950 Longitude: -105.001833

GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 12/23/2024

Ground Elevation: 5077

Field Name: WATTENBERG Field Number: 90750

Well Plan: is Directional Horizontal (highly deviated) Vertical

If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

Subsurface Locations

Top of Productive Zone (TPZ)

Sec: 34 Twp: 4N Rng: 68W Footage at TPZ: 2168 FNL 400 FWL
Measured Depth of TPZ: 7793 True Vertical Depth of TPZ: 7114 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 35 Twp: 4N Rng: 68W Footage at BPZ: 2223 FNL 75 FEL
Measured Depth of BPZ: 17911 True Vertical Depth of BPZ: 7145 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 35 Twp: 4N Rng: 68W Footage at BHL: 2222 FNL 45 FEL
FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: WELD Municipality: Mead

Is the Surface Location of this Well in an area designated as one of State interest and subject to the requirements of § 24-65.1-108 C.R.S.? Yes

Per §34-60-106(1)(f)(I)(A) C.R.S and §37-90.5-107(2)(b)(I) C.R.S, the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas or Deep Geothermal Locations.

The Energy and Carbon Management Act and the Geothermal Resources Act provide that when "applying for a permit to drill," operators must include proof that they sought a local government siting permit and the disposition of that permit application, or that the local government does not have siting regulations.

Does the Relevant Local Government regulate the siting of Oil and Gas and Deep Geothermal Locations, with respect to this Location? Yes No

If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location.

The disposition of the application filed with the Relevant Local Government is: Approved Date of Final Disposition: 11/10/2025

Comments: Mead Special Use Permit (SUP) Approved - Ordinance No. 1095

GEOTHERMAL

Well Overview

The following questions determine informational requirements based on Well type:

Which type of Geothermal Well is this? Select one of the following:

Will this well be constructed using cementing methodologies other than those listed in Rule 408.f?

If Yes, what method will be used:

Please describe the cementing method to be used in detail:

Geothermal Resource Units

Fill out the information below to submit an application for a Geothermal Resource Unit (GRU) as part of the current permit application. This may also be completed later using a Form 4 Sundry.

Will this Well be in an existing GRU?

Are you submitting your application for a new GRU as part of the current application?

SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS OR DEEP GEOTHERMAL LOCATION

Surface Owner of the land at this Well's Oil and Gas Or Deep Geothermal Location: Fee State Federal Indian

Mineral Owner beneath this Well's Oil and Gas Or Deep Geothermal Location: Fee State Federal Indian

Surface Owner Protection Bond (if applicable): _____ Surety ID Number (if applicable): _____

MINERALS DEVELOPED BY WELL

The ownership of all the minerals that will be developed by this Well is (check all that apply):

- Fee
- State
- Federal
- Indian
- N/A

LEASE INFORMATION

Using standard QtrQtr, Section, Township, Range format describe one entire mineral lease as follows:

* If this Well is within a unit, describe a lease that will be developed by the Well.

* If this Well is not subject to a unit, describe the lease that will be produced by the Well.

(Attach a Lease Map or Lease Description or Lease if necessary.)

Township 4 North, Range 68 West, 6th P.M.
Section 33: E/2
Weld County, Colorado

Total Acres in Described Lease: 320 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 3151 Feet
Building Unit: 4092 Feet
Public Road: 867 Feet
Above Ground Utility: 3533 Feet
Railroad: 5280 Feet
Property Line: 382 Feet

INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit – as defined in 100 Series Rules.

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	407-3793	2482	T4N-68W: SEC 21: S2SESE; SEC 28: E2, SW/4, SENW, S2SWNW, SEC 33: ALL, SEC 34: ALL, SEC 35: ALL

Federal or State Unit Name (if appl): _____ Unit Number: _____

SUBSURFACE MINERAL SETBACKS

Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 75 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 502 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: _____ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: _____ Feet

Exception Location

If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. _____

SPACING & FORMATIONS COMMENTS

DRILLING PROGRAM

Proposed Total Measured Depth: 17951 Feet TVD at Proposed Total Measured Depth 7185 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:
 Enter distance if less than or equal to 1,500 feet: 125 Feet No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If yes, attach an H₂S Drilling Plan unless a plan was already submitted with the Form 2A per Rule 304.c.(10).

Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? No

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

BOP Equipment Type: Annular Preventor Double Ram Rotating Head None

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	26	16	ASTM A53B	36.94	0	80	64	80	0
SURF	12+1/4	8+5/8	L80	28	0	1514	500	1514	0
1ST	7+7/8	5+1/2	HCP110	17	0	17945	1828	17945	2000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	Top M.D.	Top T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Confining Layer	Pierre Shale	17	17	294	294			The Fox Hills proper is absent at this location but some transition zone may exist per the USGS
Groundwater	Upper Pierre Aquifer	295	295	1197	1192	501-1000	Electric Log Calculation	Controlled by samples
Confining Layer	Pierre Shale	1198	1193	4253	4117			
Hydrocarbon	Sussex	4254	4118	4467	4321			Non productive
Confining Layer	Pierre Shale	4468	4322	4823	4661			
Hydrocarbon	Shannon	4824	4662	4958	4790			Non productive
Confining Layer	Pierre Shale	4959	4791	7610	7091			
Hydrocarbon	Niobrara	7614	7092	17951	7185			Base MD/TVD for target formation is BHL per ECMC

OPERATOR COMMENTS AND SUBMITTAL

Comments

We are requesting permission to perform an unplanned sidetrack on the Lavender 33-16HZ due to Sharon Springs exposure while drilling the Niobrara A. I've included information for our proposed sidetrack and attached a wellbore diagram. Thank you for your help and let me know if there is any other information you need from my end for approval.

Well name and API #:

Lavender 33-16HZ
05-123-53257

Explanation for need to sidetrack

While drilling ahead in lateral, we faulted into the Sharon Springs at ~13,600. Knowing the risk this presents to the casing and cement job the best plan forward is to pull back and sidetrack at 10,560' and drill a new wellbore around the troublesome area. Gamma was relogged from 13,400' to 13,900 to confirm Sharon Springs exposure.

Total measured depth reached in the wellbore being sidetracked

14,234' MD / 7173' TVD

Casing set – size(s) and measured depth(s)

8.625" surface casing set at 1440' MD / 1424' TVD

Description of fish in the hole (if any) – including top and bottom measured depths

NONE.

Description of proposed plugs: setting measured depths, heights, and cement volumes

NONE. Open hole sidetrack plan.

Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk)

N/A.

Measured depth of proposed sidetrack kick-off point

10,560' MD

Proposed objective formation(s) for sidetrack hole – new or same as the wellbore being abandoned

Same as original, permitted wellbore – Niobrara A

BHL target for sidetrack hole – new or same as the wellbore being abandoned

BHL will be same point as originally planned wellbore.

This application is in a Comprehensive Area Plan No CAP #:

Oil and Gas Development Plan Name LAVENDER

OGDP ID#: 491332

Location ID: 417018

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____

Print Name: Christina Hirtler

Title: Regulatory

Date: 4/19/2026

Email: christina_hirtler@oxy.com

Based on the information provided herein, this Application for Permit-to-Drill complies with ECMC Rules, applicable orders, and SB 19-181 and is hereby approved.

ECMC Approved: _____

Director of ECMC

Date: _____

Expiration Date: _____

API NUMBER

05 123 53257 00

CONDITIONS OF APPROVAL, IF ANY LIST

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

<u>COA Type</u>	<u>Description</u>
0 COA	

Operator Best Management Practices

<u>No BMP/COA Type</u>	<u>Description</u>

ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
404625746	DIRECTIONAL DATA
404625747	WELLBORE DIAGRAM
404625748	DRILLING PLAN
404625749	CORRESPONDENCE

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)